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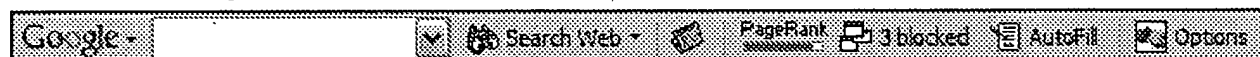... freedom, a variety of sensory systems, and a **heterogeneous distributed computation**
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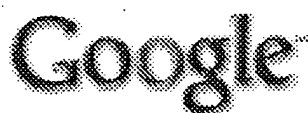
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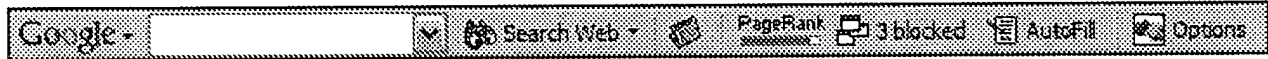File Format: PDF/Adobe Acrobat - View as HTML
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N. Kajler, "CAS/PI: a Portable and Extensible Interface for Computer Algebra Systems", Proc. of Int. Symp. on Symbolic and Algebraic Computation (ISSAC-92), ACM Press, 1992.

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.... (early) works related to the exchange of mathematical data between scientific applications are reported in [2] and in [16] Notable implementations of distributed architectures that provide some exchange of mathematical expressions include Polylith [23] CaminoReal [3] SUI [8] DSC [7] CAS PI [15], CC [6] and NetSolve [22] Based on our experiences and applying emerging technologies, we pursue the IAMC project with these goals: To make math oriented data and services easily and widely accessible on the Internet in many contexts directly, via the Web, by email, for distance ....

N. Kajler. CAS/PI: a Portable and Extensible Interface for Computer Algebra Systems. In ISSAC'92, pages 376--386. ACM Press, 1992.

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....remotely. **To access a remote mathematical compute engine, the architecture generally consists a user interface, a programming interface, and a mathematical encoding on top of the communication network protocol layers. Researchers worldwide have made contributions in the user interface (e.g. CAS PI [6], SUI [2] and GI S [20] and the encoding (e.g. OpenMath [1] MathML [4] and MP [3] and the protocol (e.g. MCP [17, 18] OpenXM [15] and KQML [7] levels.** However, the programming interface area requires more investigation. **With a well defined application programming interface, distributed ....**

KAJLER, N. CAS/PI: a Portable and Extensible Interface for Computer Algebra Systems. Proceedings of ISSAC'92, ACM Press 1992

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